CCA iGEM Camp Instructor's Manual

Research Project Information:

An important component of our camp is the presentation day on Friday (last day)!

Instructors (as shown on Page 1) are expected to prepare students to undertake their independent project during instructional sessions including skills on reading + writing scientific papers.

Students should be notified by instructors at the beginning of the camp and be given adequate work time and assistance in their respective projects throughout the week.

For more information regarding the research project, refer to the types of projects on the right as well as the student examples below:

Research Project Type #1:

Construct your hypothesis and method + predict results for a hypothetical experiment:
https://drive.google.com/file/d/1Xdsijd7MhbPorDZCuFyu8guhMRUFhNvV/view?usp=sharing

Research Project Type #2:

Conduct a review of existing studies, research papers/projects + experiments to answer a question:
https://drive.google.com/file/d/1hKmujz6GM37FByjfsenoryKn1sc9Btcb/view?usp=sharing

Research Project Type #3:

Conduct an actual experiment! This can include an observational, computational or a lab experiment!
https://ca-csef.zfairs.com/FILES/Client11031/ParticipantFiles/f33cbb95-5104-4823-910f-1a646ef26830/d1c496af-a17c-471d-8c98-7e5c5030b0e0/199158cc-d949-4128-a4f0-1930dd45d248.pdf

Project Examples:

(Past Project) By: Olivia de Guzman
Cleaning Pollution + Radiation with Paenibacillus Vortex
https://docs.google.com/presentation/d/1S3h7_wRilF70qRylAXbnjNKC-ymmqdKsDHXZhvCmmnA/edit?usp=sharing

Project By: Sophie Tsui
Wound Environment effects on wound healing
https://docs.google.com/presentation/d/1yqP2xtjKqY71bRu_xT-oHi0gu6UATn9INpMpDQWbI9g/edit?usp=sharing

Potential Q&A Prompts:

An important step in conducting scientific projects is giving + receiving feedback and utilizing it to further improve your project and other skills.

Although the audience is encouraged to ask questions, it is common that the crowd may not have any questions.

To encourage questioning and to clarify potential confusion or inquiries, instructors are encouraged to ask questions. Below are potential questions to ask students:

> What impact does your research have or is intended to bring towards the scientific field?
> What potential areas may your research be implemented in?
> (If research did not involve experimentation) How might you test your hypothesis/research proposal in a lab?

Instructors:
Amogh Chaturvedi, Amrutha Challa, Andrew Gao, Andrew Kang, Andrew Sun, Andrew Tsui, Archit Chaturvedi, Bruce Bei, Chris Jung, Claire Kang, Conan Wu, Danniell Xu, Dharmik Grandhi, Edward Shpak, John Park, Nathan Robinson, Noah Zhang, Oceana Yu, Ritvik Irigireddy, Riya Irigireddy, Trisha Thontepu

Credits:
Logo Design: Sid Udata
Manual + Form: Andrew Tsui
Slides: Andrew Tsui, Archit Chaturvedi, Claire Kang, Edward Shpak, Ishan Deshpande, John Park, Katherine Kwon, Nathan Robinson, Shruti Malladi

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